US ARMY RDECOM

ASTM / ISO Update

TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

DOD Packaging Workshop 2010

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Purpose

- Update of non-government packaging standards used by the DOD

Use of ASTM Standards

- DOD Policy to use industry and non-governmental standards where ever appropriate
- Many MIL-SPECs for packaging have been converted into ASTM standards:
  - PPP-B-626 = ASTM D5118 / ASTM D1974
  - PPP-T-60/ PPP-T-76 = ASTM D5486
  - MILSTD 1188 = ASTM D3951

ASTM Organization

- ASTM International is divided into Committees, Divisions, Subcommittees, Task Groups
  - Committee D10 – Packaging
  - Committee F02 – Flexible Barrier Materials
  - Other Committees on Wood, Steel, Plastic
- ASTM D10 / F02 meet in October and April

ASTM Committee D10

- D10 Subcommittees:
  - Shipping containers, RFID (Auto-ID technologies) Sustainability / Recycling, Tapes and Labels, Testing, Terminology, Medical Packaging, Marking
  - US representation to ISO TC122 through ANSI
  - Subcommittee D10.94 – Government Liaison

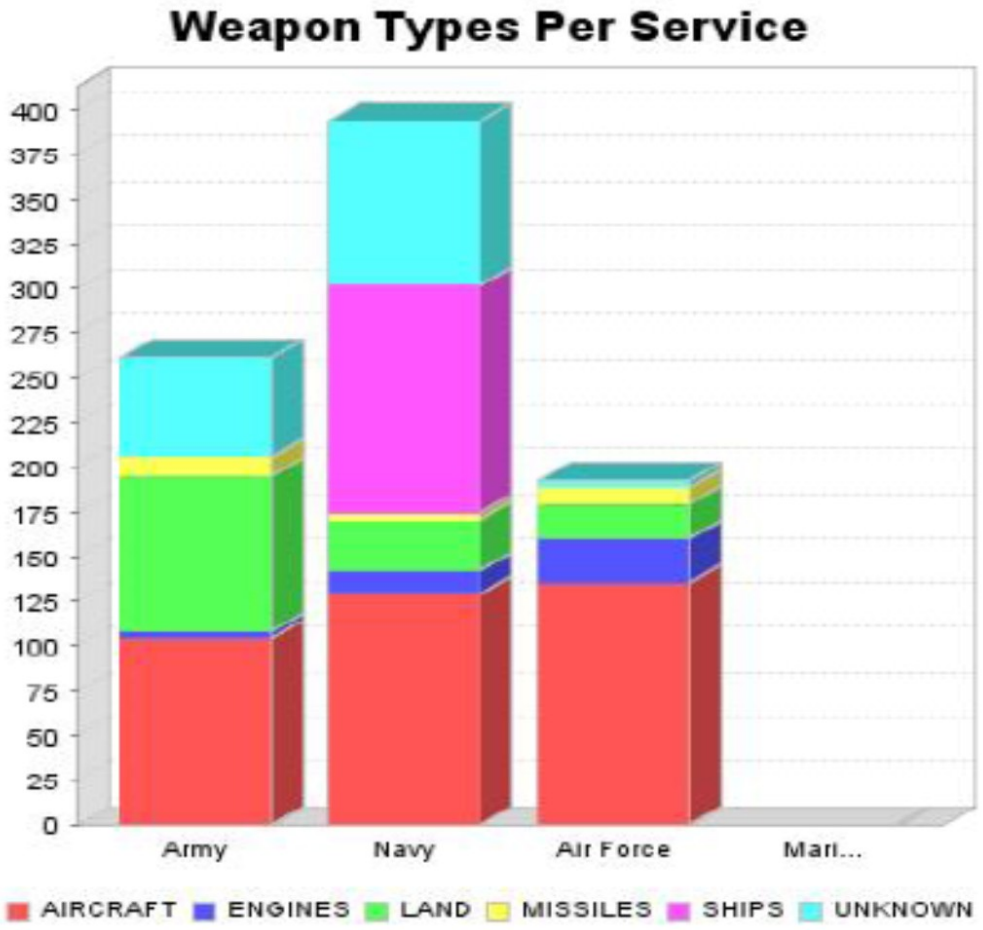
Recent ASTM Activities

- ASTM D3951 – Commercial Packaging
  - 2010 edition approved!
  - Evaluating adding guides for cushioning, preservative selection as appendices
  - KEY POINTS:
    - Calls out MIL-STD 129 for DOD shipments
    - STORAGE up to 1 YEAR
    - Transportation under favorable conditions
    - Tracks to ASTM D4169 for testing
    - Must be called out in contract

Usage of ASTM Specifications

ASTM D3951:

- Called out more than 12,000 times, in more than 950 US military major end-items



Usage of ASTM Specifications

- ASTM D4169, D3951 are 1st and 2nd most-downloaded standards under D10
  - D5118 is in Top 5
  - D6251 in the Top 10
  - D1974 is in Top 20

Recent ASTM Activities

- ASTM D 4169 - *Standard Practice for Performance Testing of Shipping Containers and Systems*
  - Distribution Cycle 18 = Military Distribution System
    - Acceptance Criteria and Assurance Levels track to Military Levels of Pack
  - Combination w/D7386 (Small Packages)
  - DC-18, Schedule H (environmental tests)
    - Difference of interpretation between Commercial and Government Testing labs
    - Task Group Formed

Recent ASTM Activities

- Updates to D6256, D6880, D6254
- D5445 – new markings proposed for tall containers subject to tip-overs (large computer server racks)
- D4919 – Hazmat Tests:
  - Reviewing references
  - Possible update to vibration test method
  - Differences of Interpretation
- Committee D10.14 – Tapes and Labels, many specs up for review

New ASTM Activities

- Committee D10.19, Packaging Sustainability and Recycling
  - Response to ISO and EU activity, other industry interest
  - Working on guides to evaluate “sustainability” of packaging

ISO Interface

- International Standards Organization
  - Technical Committees (TC)
    - Subcommittees (SC)
    - TAGs – Task Groups to develop standards
  - TC 122 – Packaging
    - SC3 – Dangerous Goods Packaging – No action
    - SC4 – (New Committee) Packaging and the Environment
      - TAGS for Recycling, Energy Recovery, Biodegradability, etc.

ISO Interface

- Why do we care about ISOs?
  - INDUSTRY complies with ISO standards to sell their packaging products in overseas markets
  - ISOs are broad, International in scope
  - ASTMs – detailed, US-domestic scope

Too many standards = higher packaging costs

Using Industry standards lowers DOD costs

Future Activities

- Input from DOD:
  - Test Standards D4169 and 4919
  - Review of A700 – wire banding
- Next ASTM Committee Week: 11-13 April, Anaheim, CA
- ISO TC122 SC4 meeting, 2-5 May Atlanta, CA

DISCUSSION?

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